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PATENT COOPERATION

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TOP 1	PATENT COOPERATION	EATY	
anslation internation	PCT		
INTERNAT	IONAL PRELIMINARY EXAMIN	NATION REPORTS	
	(PCT Article 36 and Rule 70)	10/0494	
Applicant's or agent's file reference 43 368 K		fication of Transmittal of Inter y Examination Report (Form PCT/IPE	
International application No. PCT/EP99/05995	International filing date (day/month/year) 16 August 1999 (16.08.99)	Priority date (day/month/year)	
International Patent Classification (IPC) or C23C 22/53	national classification and IPC		
Applicant WALTER HI	ILLEBRAND GMBH & CO. GALV.	ANOTECHNIK	
been amended and are the (see Rule 70.16 and Section	anied by ANNEXES, i.e., sheets of the describasis for this report and/or sheets containing n 607 of the Administrative Instructions undetotal of sheets.	rectifications made before this Author	
3. This report contains indications rel	ating to the following items:	JUL 5 - 2002	
Basis of the report	rt	TC 1700	
" [nt of opinion with regard to novelty, inventive		
IV Lack of unity of i	invention		
V Reasoned statement citations and exp	ent under Article 35(2) with regard to novelty lanations supporting such statement	, inventive step or industrial applicable	
VI Certain documen	ts cited		
VII Certain defects in	fects in the international application		
VIII Certain observati	ons on the international application		
Date of submission of the demand	Date of completion	of this report	
17 March 2000 (17.0	03.00) 21 N	lovember 2000 (21.11.2000)	
Name and mailing address of the IPEA/EP	Authorized officer	······································	
Facsimile No.	Telephone No.		

International application No.

. INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/EP99/05995

I. Basis	of the	report		
1. This	report r Article	has been drawn o	on the basis of (Replacement sho in this report as "originally filed	eets which have been furnished to the receiving Office in response to an invitation I" and are not annexed to the report since they do not contain amendments.):
		the international	application as originally filed	l.
	\square	the description,	pages1-4	, as originally filed,
	~		pages	, filed with the demand,
				, filed with the letter of,
			pages	, filed with the letter of
	\square	the claims,	Nos. 1-5	, as originally filed,
		,		, as amended under Article 19,
				, filed with the demand,
				, filed with the letter of,
				, filed with the letter of
	\Box	the drawings,	sheets/fig	, as originally filed,
	ш	.		, filed with the demand,
			sheets/fig	, filed with the letter of,
			sheets/fig	, filed with the letter of
2. The	amend	ments have result	ed in the cancellation of:	,
		the description,	pages	_
	$\overline{\Box}$	the claims,	Nos	
	\Box	the drawings,		
	لــــا	<u>.</u>	5 ====	_
3.	This	report has been e	stablished as if (some of) the osure as filed, as indicated in	amendments had not been made, since they have been considered the Supplemental Box (Rule 70.2(c)).
	6.			
4. Add	itional	observations, if n	ecessary:	
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

nternational application No. PCT/EP 99/05995

V. Reasoned statement under Article 35(2) with regard t novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	4, 5	YES
	Claims	1-3	NO
Inventive step (IS)	Claims		YES
	Claims	1-5	NO
Industrial applicability (IA)	Claims	1-5	YES
	Claims		NO

2. Citations and explanations

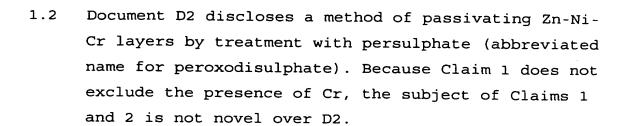
The following documents are cited:

D1: EP-A-760 401

D2: CHEMICAL ABSTRACTS, Vol. 121, No. 6, 8 August 1994, Columbus, Ohio, US;

abstract No. 62348v.

- 1. The present application does not meet the requirements of PCT Article 33(2), since the subject of Claims 1 to 3 is not novel over the prior art as defined in the PCT Regulations (PCT Rules 64.1 to 64.3).
- 1.1 Document D1 describes a method of passivating Zn-Ni layers by treatment with a solution containing peroxide such as peroxodisulphate. The passivated surfaces are then coated with e.g. silicate layers (cf. Claim 1; Examples 7 and 16; page 2, lines 39-42; page 3, lines 51-58). The subject of Claims 1 to 3 is therefore not novel.



- 1.3 It should be noted that at least Claim 1 is not novel over any of the X documents in the search report, since these documents disclose the passivation of Zn-Ni layers by means of an oxidising agent. Where the abstracts do not mention Zn-Ni layers, reference should be made to the original applications.
- The present application does not meet the requirements of PCT Article 33(3), since the subject matter of Claims 4 and 5 does not involve an inventive step (PCT Rule 65.1 and 65.2).
- 2.1 The layers in Claims 4 and 5 are layers customarily used (cf. present application, page 3, paragraph 3) which can be applied after passivation. It is then obvious to a person skilled in the art to make use of these layers after passivation in accordance with D1 and so to arrive at a method as claimed in Claims 4 and 5. Furthermore the application does not show any effect of the combination.
- 3. The present invention is regarded as industrially applicable, since it can be used in the field of surface treatment.

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ernational application No.
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VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

- 1. Contrary to PCT Rule 5.1(a)(ii), the description does not cite documents D1 and D2 or indicate the relevant prior art disclosed therein.
- Claim 1 has been drafted in the two-part form, however, it is not correct to place the feature "with an oxidising agent" in the characterising part, as it was disclosed in combination with the features listed in the preamble (PCT Rule 6.3(b)).

· · · INTERNATIONAL PRELIMINARY EXAMINATION REPORT

ernational application No.
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VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

1. It is apparent from the description, page 2, paragraph 6, that the following feature is essential to the definition of the invention:

"avoiding any use of chromium".

Since independent Claim 1 does not contain this feature, it does not meet the requirement of PCT Article 6 in conjunction with PCT Rule 6.3(b), according to which each independent claim must include all the technical features which are necessary for the definition of the invention.

- 2. "Peroxide sulphate" in Claim 2 (and on page 3) is a typing error. "Peroxodisulphate" is intended.
- 3. The subject of dependent Claim 3 cannot be appended to independent Claim 1 (according to Claim 3 the conversion layer is applied to the zinc-nickel layer and not to the **passivated** zinc-nickel layer in Claim 1). This inconsistency between the claims leads to doubt as to the scope of the claims, which therefore do not exhibit the clarity specified in PCT Article 6.
- 4. The expression "conversion layer" used in Claims 3 and 4 is not clear, and leaves the reader uncertain as to the meaning of the technical feature concerned. The layers mentioned in the subclaims and description are not conversion layers. Consequently the definition of the subject matter of Claims 3

*. * INTERNATIONAL PRELIMINARY EXAMINATION REPORT

VIII. Certain observations on the international application

and 4 is not clear (PCT Article 6).

- 5. Claim 5 is not supported by the description as prescribed in PCT Article 6, as its scope goes beyond the scope justified by the description. The reasons are as follows: "dry lubricant layer" was omitted in the description.
- 6. Claim 5 does not state what the layer is applied to.
 Consequently the definition of the subject matter of
 Claim 5 is not clear.